## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

SORRELLS et al.

Appl. No.: 10/086,250

Filed: March 4, 2002

For: Applications of Universal **Frequency Translation** 

Confirmation No.: 1369

Art Unit: 2687

Examiner: Bhattacharya, Sam

Atty. Docket: 1744.0140006

## **Supplemental Information Disclosure Statement**

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed on December 17, 2003 in connection with the above-captioned application.

In addition to providing hard copies of the documents as required by applicable rules (see box 7 below), Applicants herewith provide a Compact Disc labeled "Disc 3" having stored thereon searchable electronic copies (in PDF format) of the documents listed on the PTO-1449. More specifically, the CD contains electronic copies of documents AL23, AG55-AI55, AA56-AI56, AA57-AI57, AA58-AI58, AA59-AI59, AN59-AP59, AA60-AI60, AA61-AI61, AA62-AI62, AA63-AI63, AA64-AI64, and AA65-AG65. In addition, the CD also contains electronic copies of documents AE54-AI54 and AA55-AF55, all of which were cited in the present application in a previous

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Information Disclosure Statement. The file names on the CD correspond to the identifiers on the PTO-1449 forms. It is noted that the CD is being provided in addition to hard copies of the documents for the convenience of the Examiner.

Applicants have listed publication dates on the attached Form PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Documents AL23, AF56-AH56, AO59, and AE61 were cited in an Office Action in related U.S. Patent Application No. 09/669,634, filed September 26, 2000, entitled "High Frequency Translator and Method of High Frequency Translation," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 6,049,706; 6,421,534; and 6,560,301, which have already been cited in the present application.

Documents AG55 and AH55 were cited in an Office Action in related U.S. Patent Application No. 10/317,181, filed December 12, 2002, entitled "Differential Frequency Down-Conversion Using Techniques of Universal Frequency Translation Technology," directed to related subject matter.

Documents AI55 and AA56 were cited in an Office Action in related U.S. Patent Application No. 10/317,165, filed December 12, 2002, entitled "Method and Apparatus for Reducing DC Offsets in Communication Systems Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AB56 and AN59 were cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled, "Optical Down-converter Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AB56, AP59, and AG63 were cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Downconverter Using Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," *IEEE Journal of Selected Topics in Quantum Electronics*, IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996); Simoni, A. et al., "A Digital Camera for Machine Vision," 20th International Conference on Industrial Electronics, Control and Instrumentation, IEEE, pp. 879-883 (September 1994); and Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," Electronics & Communication Engineering Journal, IEEE, pp. 37-47 (February 1998), which have already been cited in the present application.

Documents AC56, AD56, AI56, AA57, AD64, AE64, and AA65 are co-owned patents which are directed to related subject matter.

Documents AC56, AD56, AI56, AA57, and AH59 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/838,387, filed April 20, 2001,

entitled "Method and System for Down-Converting and Up-Converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 5,937,013; 6,061,551; and 6,647,250, which have already been cited in the present application.

Documents AD56, AI56, AG61, and AH61 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/525,615, filed March 14, 2000, entitled "Method, System, and Apparatus for Balanced Frequency Up-conversion of a Baseband Signal and 4-Phase Receiver and Transceiver Embodiments," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 6,091,940 and 6,370,371, which have already been cited in the present application.

Document AE56 was cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled, "Optical Down-converter Using Universal Frequency Translation Technology," directed to related subject matter.

Documents AB57-AE57 were cited in an Office Action in related U.S. Patent Application No. 09/567,978, filed May 10, 2000, entitled "Carrier and Clock Recovery Using Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,937,013, which has already been cited in the present application.

Documents AF57 and AG57 were cited in a Notice of Allowance in related U.S. Patent Application No. 10/330,219, filed December 30, 2002, entitled "Methods and Systems for Down-Converting Electromagnetic Signals, and Applications Thereof," directed to related subject matter.

Documents AH57, AI57, AA58-AI58, and AA59 were cited in an Office Action in related U.S. Patent Application No. 09/566,188, filed May 5, 2000, entitled "Integrated Frequency Translation and Selectivity with Gain Control Functionality, and Applications Thereof," directed to related subject matter.

Documents AB59 and AC59 were cited in an Office Action in related U.S. Patent Application No. 09/632,856, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments and Circuit Implementation," directed to related subject matter.

Documents AD59-AF59 were cited in an Office Action in related U.S. Patent Application No. 09/569,044, filed May 10, 2000, entitled "Universal Platform Module and Methods and Apparatuses Relating Thereto Enabled by Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 2,057,613; 2,241,078; 2,283,575; 2,358,152; 2,410,350; 2,451,430; 2,472,798; 4,653,117; and 5,241,561, which have already been cited in the present application.

Document AG59 was cited in an Office Action in related U.S. Patent Application No. 10/289,377, filed November 7, 2002, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,471,665; 5,793,817; and 5,898,912, which have already been cited in the present application.

Documents AI59 and AI64 were cited in an Office Action in related U.S. Patent Application No. 09/590,955, filed June 9, 2000, entitled "Phase Shifting Applications of Universal Frequency Translation," directed to related subject matter.

Documents AI59 and AA60 were cited in an Office Action in related U.S. Patent Application No. 09/525,185, filed March 14, 2000, entitled "Spread Spectrum Applications of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,339,459; 5,369,789; and 5,937,013, which have already been cited in the present application.

Documents AB60-AE60 were cited in an Office Action in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Methods and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,339,459 and 5,557,641, which have already been cited in the present application.

Documents AF60-AH60 were cited in an Office Action in related U.S. Patent Application No. 09/590,955, filed June 9, 2000, entitled "Phase Shifting Applications of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,339,459, which has already been cited in the present application.

Documents AI60, AA61, and AB61 were cited in an Office Action in related U.S. Patent Application No. 09/550,642, filed April 14, 2000, entitled "Method and System for Down-Converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter.

Documents AC61 and AD61 were cited in an Office Action in related U.S. Patent Application No. 10/317,165, filed December 12, 2002, entitled "Method and Apparatus

for Reducing DC Offsets in Communication Systems Using Universal Frequency Translation Technology, "directed to related subject matter.

Document AF61 was cited in an Office Action in related U.S. Patent Application No. 09/476,093, filed January 3, 2000, entitled "Communication System Method With Multi-Mode and Multi-Band Functionality and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,937,013 and 5,790,587, which have already been cited in the present application.

Documents AI61, AA62, and AB62 were cited in a Written Opinion in related PCT Application No. PCT/US03/16403, filed May 27, 2003, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter. Also cited in said Written Opinion was U.S. Patent No. 5,483,600, which has already been cited in the present application.

Documents AI61 and AA62-AH62 were cited in an Office Action in related U.S. Patent Application No. 10/290,323, filed November 8, 2002, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,483,600, which has already been cited in the present application.

Documents AI62, AA63, and AB63 were cited in an Office Action in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter. Also cited in said Office

Action were U.S. Patent Nos. 5,937,013; 6,014,551; 6,073,001; 6,085,073; and 6,314,279, which have already been cited in the present application.

Documents AC63-AF63 were cited in an Office Action in related U.S. Patent Application No. 09/986,764, filed November 9, 2001, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Documents AH63, AI63, AA64, and AB64 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/987,193, filed November 13, 2001, entitled "Method and Apparatus for a Parallel Correlator and Applications Thereof," directed to related subject matter.

Document AC64 was cited in an Office Action in related U.S. Patent Application No. 09/632,857, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Technology and Applications Including Techniques of Universal Frequency Translation," directed to related subject matter.

Documents AF64 and AG64 were cited in an Office Action in related U.S. Patent Application No. 10/289,377, filed November 7, 2002, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter.

Document AH64 was cited in a Notice of Allowance in related U.S. Patent Application No. 10/197,441, filed July 18, 2002, entitled "Method and System for Frequency Up-Conversation With a Variety of Transmitter Configurations," directed to related subject matter.

Document AB65 was cited in an Office Action in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Method and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter.

Documents AC65-AF65 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/770,675, filed January 29, 2001, entitled "Wireless and Wired Cable Modern Applications of Universal Frequency Translation Technology," directed to related subject matter.

Document AG65 is a co-owned, pending, published patent application directed to related subject matter.

It is noted that some of these documents could be classified in more than one of the above categories.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

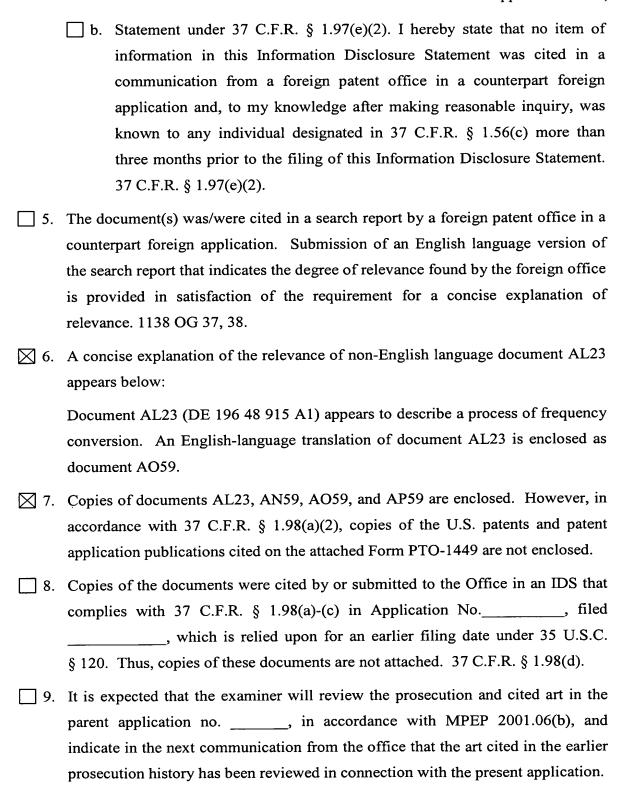
Applicants have checked the appropriate boxes below.

fee is required.

<u> </u>	Statement under 37 C.F.R. 1.704(d). Each item of information contained in this
	Information Disclosure Statement was cited in a communication from a foreign
	patent office in a counterpart application and this communication was not
	received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty
	days prior to the filing of this information disclosure statement.
<u> </u>	Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being

filed before the mailing of a first Office Action on the merits. No statement or

∑ 3.	Filing	under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being
	filed n	nore than three months after the U.S. filing date AND after the mailing date
	of the	first Office Action on the merits, but before the mailing date of a Final
	Reject	ion, or Notice of Allowance, or an action that otherwise closes prosecution
	in the	application.
	□ a.	Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of
		information contained in this Information Disclosure Statement was first
		cited in any communication from a foreign patent office in a counterpart
		foreign application not more than three months prior to the filing of this
		Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
	□ b.	Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of
		information in this Information Disclosure Statement was cited in a
		communication from a foreign patent office in a counterpart foreign
		application and, to my knowledge after making reasonable inquiry, was
		known to any individual designated in 37 C.F.R. § 1.56(c) more than
		three months prior to the filing of this Information Disclosure Statement.
		37 C.F.R. § 1.97(e)(2).
	⊠ c.	Attached is our PTO-2038 Credit Card Payment Form in the amount of
		<b><u>\$180.00</u></b> in payment of the fee under 37 C.F.R. § 1.17(p).
<b>4</b> .	Filing	under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being
	filed r	nore than three months after the U.S. filing date and after the mailing date
	of a Fi	inal Rejection or Notice of Allowance, but before payment of the Issue Fee.
	Enclos	sed find our PTO-2038 Credit Card Payment Form in the amount of
	\$	in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
	□ a.	Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of
		information contained in this Information Disclosure Statement was cited
		in a communication from a foreign patent office in a counterpart foreign
		application not more than three months prior to the filing of this
		Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).



SORRELLS *et al.* Appl. No. 10/086,250

- 12 -

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey S. Weaver Attorney for Applicants Registration No. 45,608

Date: <u>April 27, 2005</u>

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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ATTY. DOCKET NO.	APPLICATION NO.
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INVENTORS SORRELLS et al.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				FILING DATE ART UNIT March 4, 2002 2687					
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EXAMINER INITIAL		DC	CUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
	AA								
	АВ								
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	AE								
	AF								
	AG55	5 5,6	682,099	10/1997	Thompson et al.				
	AH55	5 6,0	094,084	07/2000	Abou-Allam et al.				
	AI55	6,0	067,329	05/2000	Kato et al.				
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	AK							Yes No	
	AL23 DE		= 196 48 915 A1	06/1998	DE			Yes (Doc. AO59)	
	AM							Yes	
	17.101	OTHI	FR DOCUMENTS	(Including	Author, Title, Date, Per	tinent Pages.	etc.)	No	
	AN	59	Simoni, A. et al.	, "A Single-	Chip Optical Sensor with Circuits, IEEE, Vol. 30, N	Analog Memo	ry for Motion	Detection," 95).	
	AO	<u>59</u>	English Transla	English Translation of German Patent Publication No. DE 196 48 915 A1, 10 pages.					
	АР	<u>59</u>	Deboo, Gordon J., <i>Integrated Circuits and Semiconductor Devices</i> , 2 <sup>nd</sup> Edition, McGraw-Inc., pp. 41-45 (1977).						
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

	Page 2 of 11
ATTY. DOCKET NO.	APPLICATION NO.
1744.0140006	10/086,250
INVENTORS	
SORRELLS et al.	
FILING DATE	ART UNIT

March 4, 2002 2687 **U.S. PATENT DOCUMENTS EXAMINER** SUB-CLASS | FILING DATE DOCUMENT NUMBER CLASS INITIAL DATE NAME AA56 6,516,185 02/2003 MacNally **AB56** 08/2003 6,608,647 King 02/2004 Sorrells et al. AC56 6,687,493 B1 Sorrells et al. AD56 6,694,128 B1 02/2004 AE56 02/2000 Aswell et al. 6,031,217 Shattil 09/1999 AF56 5,955,992 12/1999 Naden et al. AG56 5,999,561 **AH56** 6,686,879 B2 02/2004 Shattil 03/2004 Sorrells et al. **AI56** 6,704,549 B1 **FOREIGN PATENT DOCUMENTS** EXAMINER DATE COUNTRY CLASS SUB-CLASS TRANSLATION DOCUMENT NUMBER INITIAL Yes AJ No Yes ΑK No Yes ΑL No Yes AM No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) ΑN ΑO AP AQ AR DATE CONSIDERED **EXAMINER** 



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ATTY. DOCKET NO.	APPLICATION NO.
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				ENT DOCUMENTS	12001		
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA57	6,704,558 B1	03/2004	Sorrells et al.			
	AB57	5,490,176	02/1996	Peltier			
	AC57	5,970,053	10/1999	Schick et al.			
	AD57	6,078,630	06/2000	Prasanna			
	AE57	6,600,911 B1	07/2003	Morishige et al.			
	AF57	5,179,731	01/1993	Tränkle et al.			
	AG57	5,589,793	12/1996	Kassapian			
	AH57	4,510,467	04/1985	Chang et al.			
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Page 4 of 11 APPLICATION NO. 10/086,250 ATTY. DOCKET NO. 1744.0140006 **INVENTORS** SORRELLS et al.

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INFORMATION DISCLOSURE STATEMENT				FILING DATE March 4, 2002		ART UNIT 2687		
			U.S. PAT	ENT DOCUMENTS	,			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
	AA58	4,972,436	11/1990	Halim et al.				
	AB58	5,012,245	04/1991	Scott et al.				
	AC58	5,422,909	06/1995	Love et al.				
	AD58	5,440,311	08/1995	Gallagher et al.				
	AE58	5,926,513	07/1999	Suominen et al.				
	AF58	5,995,030	11/1999	Cabler				
	AG58	6,047,026	04/2000	Chao et al.				
	AH58	6,049,573	04/2000	Song				
ų.	AI58	6,076,015	06/2000	Hartley et al.				
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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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INFORMATION DISCLOSURE STATEMENT

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EXAMINER INITIAL	_	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA59	6,144,331	11/2000	Jiang			
	AB59	6,018,553	01/2000	Sanielevici et al.			
	AC59	6,317,589 B1	11/2001	Nash			
	AD59	5,058,107	10/1991	Stone et al.			
	AE59	5,757,858	05/1998	Black et al.			
	AF59	6,531,979 B1	03/2003	Hynes			
	AG59	6,018,262	01/2000	Noro et al.			
	AH59	4,761,798	08/1988	Griswold, Jr. et al.			
•	AI59	5,982,315	11/1999	Bazarjani et al.			
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EXAMINER				COUNTRY	CLASS	SUB-CLASS	TRANSLATION
INITIAL	AJ	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	30B-CLAGG	Yes
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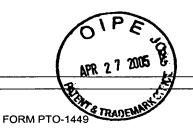
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Page 6 of 11 APPLICATION NO. 10/086,250 ATTY. DOCKET NO. 1744.0140006 **INVENTORS** SORRELLS et al.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT			FILING DATE ART UNIT March 4, 2002 2687				
				March 4, 2002 ENT DOCUMENTS	2087		
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA60	6,459,721 B1	10/2002	Mochizuki et al.			
	AB60	6,151,354	11/2000	Abbey			
	AC60	6,169,733 B1	01/2001	Lee			
	AD60	6,363,262 B1	03/2002	McNicol			
	AE60	6,697,603 B1	02/2004	Lovinggood et al.			
	AF60	5,282,222	01/1994	Fattouche et al.			
	AG60	5,949,827	09/1999	DeLuca et al.			
	AH60	6,014,176	01/2000	Nayebi <i>et al.</i>			
-	Al60	5,678,226	10/1997	Li et al.			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	
	AJ						Yes No
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	AL						Yes No
	AM						Yes No
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FORM PTO TRANSMISSION SUPPLEMENTAL

INFORMATION DISCLOSURE STATEMENT 2687 March 4, 2002 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS **FILING DATE** 5,760,632 **AA61** 06/1998 Kawakami et al. 6,160,280 12/2000 Bonn et al. **AB61** Winters AC61 5.481.570 01/1996 AD61 5,745,846 04/1998 Myer et al. 09/1994 Madni et al. AE61 5,345,239 Hongu et al. AF61 01/1979 4,132,952 AG61 5,260,973 11/1993 Watanabe 10/2001 Eidson et al. 6,307,894 B2 **AH61** 07/2000 Song et al. AI61 6,091,289 **FOREIGN PATENT DOCUMENTS** EXAMINER TRANSLATION CLASS SUB-CLASS COUNTRY DOCUMENT NUMBER DATE INITIAL Yes ΑJ No Yes ΑK No Yes ΑL No Yes AM No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) ΑN AO ΑP AQ AR DATE CONSIDERED **EXAMINER** 



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ATTY. DOCKET NO. | APPLICATION NO. | 1744.0140006 | 10/086,250 | INVENTORS | SORRELLS et al. | ART LINIT

**SUPPLEMENTAL** ART UNIT **FILING DATE** INFORMATION DISCLOSURE STATEMENT 2687 March 4, 2002 **U.S. PATENT DOCUMENTS** EXAMINER SUB-CLASS | FILING DATE INITIAL DOCUMENT NUMBER DATE NAME **CLASS** 08/2002 Nguyen et al. AA62 6,437,639 B1 **AB62** 2002/0037706 A1 03/2002 Ichihara 04/1984 AC62 4,441,080 Saari AD62 4,873,492 10/1989 Myer 12/1997 Makikallio et al. AE62 5,697,074 07/1998 Kobayashi AF62 5,784,689 AG62 6,335,656 B1 01/2002 Goldfarb et al. 02/2004 Ueno et al. **AH62** 6,690,232 B2 06/1997 Lee et al. A162 5,636,140 **FOREIGN PATENT DOCUMENTS EXAMINER** SUB-CLASS **TRANSLATION** COUNTRY CLASS DATE DOCUMENT NUMBER INITIAL Yes ΑJ No Yes AK No Yes AL No Yes AM No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) AN AO ΑP AQ AR DATE CONSIDERED **EXAMINER** 



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<del></del>	AA63	6,366,622 B1	04/2002	Brown et al.		:	
	AB63	6,600,795 B1	07/2003	Ohta et al.			
	AC63	4,250,458	02/1981	Richmond et al.			
	AD63	5,760,629	06/1998	Urabe et al.			
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	AG63	6,064,054	05/2000	Waczynski et al.		·	
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**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AB65	5,844,868	12/1998	Takahashi et al.			
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